(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 12 October 2000 (12.10.2000) (10) International Publication Number
WO 00/60352 A3

- (30) Priority Data: (84) Designated States (regionals): ARIPO patent (GH, GM, F9907665.5 1 April 1999 (01.04.1999) (85 (E. L, S. MW, SD, S. Z., T. Z. L. G. Z. W.), Emraisin system (AM, AZ, B.Y, KG, KZ, MD, RU, TJ, TM.), Eurogen patent (AM, AZ, B.Y, KG, KZ, MD, RU, TJ, TM.), Eurogen pat

(72) Inventors; and

(75) Inventors/Applicants (for US only): JONES, Peter [GB/GB]; 34 Fowlmers Road, Heydon, Hartfortshire SG8 8PU (GB), TRACEY, Mark [GB/GB]; 5 The Old School, Mount Pleasant, Little Anwell, Hertfortshire SG13 7QX (GB), SUTTON, Nicola [GB/GB]; 55 Barley Rise, Baldock, Hertfortshire SG7 6RT (GB) BUTT, Nell [GB/GB]; 15 Fetworth Street, Cambridge, Cambridgeshire CB1 2LY (GB).

Published:

with international search report

(88) Date of publication of the international search report: 9 August 2001

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

:2 A 2

(54) Title: FLUIDIC DEVICES

(57) Abstract: Apparatus for performing a chemical and/or biological process comprising: a first layer of material comprising failed processes are processed as a first layer of material comprising failed passages that define a microfluside in a microfluside in a microfluside in a microfluside in a microfluside and processed in the microfluside annotance the layers being bonded such that the flirid passages of the first layer communicate with those of the accord layer to define a fluidic annotance.

interns. sal Application No PCT/GB 00/01257

		1 ,	,
A. CLASS IPC 7	FICATION OF SUBJECT MATTER G01N33/50 B01L3/00 G01N27	/447	
According to	o International Patent Classification (IPC) or to both national classet	cation and IPC	
	SEARCHED		
IPC 7	ocumentation searched (classification system followed by classification sy	ation symbols)	
Documenta	tion searched other than minimum documentation to the extent that	such documents are included in the fields	searched
Electronic d	lata base consulted during the International search (name of data t	sase and, where practical, search terms use	d)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category "	Citation of document, with increation, where appropriate, of the r	elevant passages	Relevant to claim No.
X	EP 0 382 207 A (FUJI PHOTO FILM 16 August 1990 (1990-08-16) page 3, line 17-22 page 3, line 39-47 page 4, line 1-16 examples 1,2	CO LTD)	1,4-6, 12,30-33
X Furt	her documents are listed in the continuation of box C.	X Patent family members are liste	d in annex
"A" docume consid "E" earlier of fling d "L" docume which challo! "O" docume others" "P" docume "P"	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another nor other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	17 Isler document published after the in or priority date and not in conflict who odd to londerstand the principles of odd to londerstand the principle. 27 Sopriment of particular relevance, the casnot be considered nowed or dam involve an inventive step when the 47 Sopriment of particular relevance; the cannot be considered to wholve an invente, such communication being of menter, such communication being of the art. 36 Sopriment member of the same patter.	in the application but heavy underlying the claimed invention of be considered to locument is taken alone claimed invention invention invention more other such occu- ous to a person skilled
Date of the	actual completion of the international search	Date of mailing of the interrectional s	exch report
2	0 December 2000	2 2 02. 01	
Name and r	mailing address of the ISA European Petent Cilice, P.B. 5818 Palentiaan 2 NL - 2809 bit Villijswijk Tel. (431-70) 340-2640, Tx. 31 551 epo nl. Fax (431-70) 340-3018	Authorized officer Goetz, M	

Intern. .al Application No PCT/GB 00/01257

C./Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT					
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
WOOLLEY ADAM T ET AL: "Ultra-high-speed DMA fragment separations using microfabricated capillary array electrophoresis chips." PROCEEDINGS OF THE WATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 91, no. 24, 1994, pages 11348-11352, XP002155992 1994 1SSN: 0027-8424 page 11348, right-hand column, paragraph 3-page 11349, right-hand column, paragraph 1	1-4.8, 10,11,31				
WO 98 22811 A (BOUSSE LUC J ;CALIPER TECHN CORP (US); KOPF SILL ANNE R (US); PARC) 28 May 1998 (1998-06-28) page 6, line 20-28 page 7, line 3-9 page 7, line 15-19 page 8, line 20 -page 9, line 8 page 9, line 18-20	1-4,9				
WO 96 14933 A (UNIV PENNSYLVANIA) 23 May 1996 (1996-05-23)	1-5, 9-11,18, 31,32				
page 16, line 12-37 page 17, line 32 -page 18, line 23 page 19, line 15-29 page 20, line 20 -page 21, line 15 page 21, line 27-35 page 22, line 22-37; figures 1-15	6,30				
WO 96 15576 A (SARNOFF DAVID RES CENTER) 23 May 1996 (1996-05-23) page 10, line 3 -page 12, line 30 page 13, line 25 -page 17, line 27	1-3,8, 10,11, 18,19, 22,24,32				
page 19, line 20,26 page 38, line 30 -page 39, line 2 page 44, line 24 -page 45, line 19 page 48, line 8 -page 49, line 4 figures 5-7; examples 2,3					
US 5 304 487 A (WILDING PETER ET AL) 19 April 1994 (1994-04-19) column 8, line 20 -column 9, line 4;	6,30				
	Chabon of document, with indication, where appropriate, of the minimum passages WOOLLEY ADAM T ET AL: "Ultra-high-speed DNA fragment separations using microfabricated capillary array electrophoresis chips." PROCEEDINS OF THE MATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 91, no. 24, 1994, pages 11348-11352, XP0902155992 1994 1SSN: 0027-8424 page 11348, right-hand column, paragraph 3 -page 11348, right-hand column, paragraph 1 WO 98 22811 A (BOUSSE LUC J ;CALIPER TECHN CORP (US); KOPF SILL ANNER (US); PARC) 28 May 1998 (1998-05-28) page 6, line 20-28 page 7, line 3-9 page 8, line 20 -page 9, line 8 page 9, line 18-20 WO 96 14933 A (UNIV PENNSYLVANIA) 23 May 1996 (1996-05-23) page 16, line 15-29 page 21, line 15-29 page 22, line 27-35 page 21, line 27-35 page 22, line 27-35 page 21, line 27-35 page 22, line 28-37; figures 1-15 WO 96 15576 A (SARNOFF DAVID RES CENTER) 23 May 1996 (1996-05-23) page 10, line 3 -page 12, line 30 page 13, line 25 -page 17, line 27 page 19, line 25 -page 39, line 2 page 48, line 8 -page 49, line 4 figures 5-7; examples 2, 3 US 5 304 487 A (WILDING PETER ET AL)				

International application No. PCT/GB 00/01257

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	emational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.; because they relate to subject matter not required to be searched by this Authority, namely:
2	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
з. [Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(s).
Box II	Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all centrable claims.
2.	As all seanhable claims could be searched without effort justifying an additional fee, this Authority old not invite payment of any additional fee.
3.	As only some of the required additional search less were timally paid by the applicant, this International Search Report coverts only those claims for which fixes were paid, specifically claims Nos.:
4. X	No required additional search fees were limely paid by the applicant, Consequently, this International Search Report is restricted to the invention first mentioned in the pairs, it is posted by claims Nos.:
	1-33
Remark	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

1. Claims: 1 - 33

Apparatus for performing chemical/biological processes which is characterized by a microfluidic structure defined in a first material layer and a larger-scale fluidic structure defined in a second material layer; method for performing chemical/biological processes by using the said apparatus.

2. Claims: 34 - 55

Apparatus for performing chemical/biological processes comprising an analysis unit, a fluid control unit and an isolation means; method for performing chemical/biological processes by using the said apparatus.

3. Claims: 56 - 65

Method for forming a microfluidic device.

4. Claims: 66 - 78

Cell trapping structure characterized by a particular spatial arrangement of fluid passages; method for trapping cells using the said cell trapping structure.

5. Claims: 79 - 83

Apparatus for performing chemical/biological processes defined by a fluid inlet, a microfluidic structure linked to the inlet and a waste chamber; method for performing chemical/biological processes by using the said apparatus.

Information on patent family members

Intern ial Application No PCT/GB 00/01257

EP 0382207 A 16-08-1990 DE 69005840 T 19-05-1994 DE 69005840 T 19-05-1995 DE 69005840 T 19-05-1995 DE 69005840 T 19-05-1995 DE 69005840 DE 69005	Patent document cited in search report	Publication date		Patent family	Publication date
DE 69005840 T 19-05-1994 JP 2846035 B 03-03-1999 JP 3016651 A 24-01-1991 US 5393493 A 28-02-1995 WO 9822811 A 28-05-1998 EV 1010003 A 21-06-2000 WO 9614933 A 23-05-1996 US 5744366 A 28-04-1998 US 5547128 A 24-12-1996 AU 704277 B 15-04-1999 AU 4286996 A 06-06-1998 AU 68213 B 29-10-1998 AU 4286996 A 06-06-1996 CA 2181189 A 23-05-1996 CA 2181189 A 23-05-1996 CA 2181189 A 23-05-1996 CA 1187639 A 06-06-1996 CA 1187639 A 20-08-1997 CN 1147917 A 26-02-1997 CN 1147917 T 18-11-1997 US 560328 A 27-05-1996 WO 9614934 A 23-05-1996 WO 9615576 A 23-05-1996 WO 9614934 A 23-05-1996 WO 9615576 A 23-05-1996 US 562876 A 27-06-1997 AU 705351 B 20-06-1999 AU 4182996 A 06-06-1996 AU 750569 A 23-05-1996 WO 9614934 A 23-05-1996 WO 9614934 A 23-05-1996 CA 2289106 A 27-06-1997 AU 765351 B 20-06-1999 AU 4182996 A 06-06-1999 AU 4283976 A 06-06-1999 AU 4233796 A 06-06-1999 AU 4233796 A 06-06-1999 AU 4233796 A 06-06-1999 AU 4233796 A 06-06-1999 BP 0791288 A 27-06-1999 AU 4233796 A 06-06-1999 BP 0791288 A 27-06-1999 BP 0791288			DE	member(s) 69005840 D	l
JP 3016651 A 24-01-1991 US 5393493 A 28-02-1995 WO 9822811 A 28-05-1998 AU 5261398 A 10-06-1998 EP 1010003 A 21-06-2000 WO 9614933 A 23-05-1996 US 5726226 A 28-04-1999 US 5574266 A 28-04-1998 US 557128 A 24-12-1996 AU 704277 B 15-04-1999 AU 4286996 A 06-06-1996 AU 4282996 A 06-06-1996 CA 2181189 A 23-05-1996 CA 2181189 A 23-05-1996 CA 1143917 A 26-02-1997 CN 1147639 A 20-08-1997 CN 1147639 A 20-08-1997 CN 1143917 A 26-02-1997 WO 9615576 A 23-05-1996 US 5582880 A 27-07-1999 WO 9614934 A 23-05-1996 WO 9614934 A 23-05-1996 CA 218129 A 23-05-1996 US 5622876 A 27-05-1997 AU 705351 B 20-06-1999 AU 4282996 A 06-06-1996 AU 705669 B 23-05-1996 CA 2281966 A 27-05-1997 US 5603351 A 18-02-1997 AU 705351 B 20-06-1999 AU 4283996 A 06-06-1999 AU 4283996 A 06-06-1999 AU 4283796 A 06-06-1999 AU 4283796 A 06-06-1999 AU 4283796 A 06-06-1999 AU 4233796 A 06-06-1999 US 5603351 A 18-02-1997 US 5603351 A 18-02-1999 US 578388 A 14-01-1997 US 560366 A 23-05-1996 CA 2296912 A 23-05-1996 US 5633788 A 10-07-1997 US 5603351 A 18-02-1999 US 5783888 A 14-01-1997 US 5603351 A 18-02-1999 US 5783888 A 14-01-1999 US 5783888 A 14-01-1999 US 5783888 A 14-01-1999 US 5783888 A 14-01-1999 US 5783988 A 26-01-1999 US 5783988 A 2			DE	69005840 T	
US 539,493 A 28-02-1998					
WO 9822811					
EP 1010003 A 21-06-2000 W0 9614933 A 23-05-1996 US 5726026 A 10-03-1998 US 5744366 A 28-04-1998 US 5587128 A 24-12-1996 AU 704277 B 15-04-1999 AU 704277 B 15-04-1999 AU 4262996 A 06-06-1996 CA 2161189 A 23-05-1996 CA 2161189 A 23-05-1996 CA 1143917 A 26-02-1997 CN 1147673 A 20-08-1997 CN 1147673 A 26-02-1997 CN 1143917 A 26-02-1997 DP 511407 T 18-11-1997 JP 9509498 T 22-09-1997 WO 9615269 A 23-05-1996 WO 9614934 A 23-05-1996 WO 9615576 A 23-05-1996 WO 9615576 A 23-05-1999 WO 9615670 A 23-05-1999 WO 96156			US	5393493 A	28-02-1995
W0 9614933 A 23-05-1996 US 5726026 A 10-03-1998 US 5744366 A 28-04-1998 US 5587128 A 24-12-1996 AU 70427 B 15-04-1999 AU 423696 A 06-06-1998 AU 4282896 A 06-06-1996 AU 4282896 A 06-06-1996 CA 2181190 A 23-05-1996 CA 2203618 A 27-07-1999 CA 2203618 A 27-08-1997 CA 2203618 A 27-08-1997 CA 2203618 A 28-08-1996 CA 2203618 A 28-08-	WO 9822811 A	28-05-1998	AU	5261398 A	10-06-1998
US 5744366 A 28-04-1998 US 5687128 A 24-12-1996 AU 704278 B 15-04-1999 AU 426996 A 66-66-1996 AU 698213 B 29-10-1998 AU 4282986 A 66-66-1996 CA 2181139 A 23-05-1996 CA 2181139 A 23-05-1996 CA 2181139 A 23-05-1996 CA 1147917 A 26-02-1997 CN 1562880 A 27-07-1999 CN 2562880 A 27-07-1999 CN 2562880 A 27-07-1999 CN 2562880 A 27-07-1999 AU 476296 B 27-05-1996 CN 250566 A 23-05-1996 CN 250566 A 23-05-1996 CN 250566 A 23-05-1996 CN 250566 A 23-05-1997 CN			EΡ	1010003 A	21-06-2000
US 5744366 A 28-04-1998 US 5687128 A 24-12-1996 AU 704278 B 15-04-1999 AU 426996 A 66-66-1996 AU 698213 B 29-10-1998 AU 4282986 A 66-66-1996 CA 2181139 A 23-05-1996 CA 2181139 A 23-05-1996 CA 2181139 A 23-05-1996 CA 1147917 A 26-02-1997 CN 1562880 A 27-07-1999 CN 2562880 A 27-07-1999 CN 2562880 A 27-07-1999 CN 2562880 A 27-07-1999 AU 476296 B 27-05-1996 CN 250566 A 23-05-1996 CN 250566 A 23-05-1996 CN 250566 A 23-05-1996 CN 250566 A 23-05-1997 CN	WO 9614933 A	23-05-1996	US	5726026 A	10-03-1998
US 5587128 A 24-12-1996 AU 704277 B 15-04-1999 AU 426996 A 06-06-1996 AU 4282896 A 06-06-1996 AU 4282896 A 06-06-1996 AU 4282996 A 06-06-1996 CA 2181189 A 23-05-1996 CA 2181189 A 23-05-1996 CA 2181190 A 23-05-1996 CA 218139 A 20-08-1997 CN 113917 A 26-02-1997 EP 0739240 A 30-10-1996 EP 0739240 A 23-05-1996 US 5582880 A 27-07-1999 WO 9615576 A 23-05-1996 US 5582876 A 27-05-1997 AU 4182396 A 06-06-1996 AU 4182396 A 06-06-1996 AU 4233796 A 06-06-1996 CA 2204912 A 23-05-1996 CA 2204912 A 23-05-1996 CA 2205066 A 23-05-1996 CA 2205066 A 23-05-1996 CA 2205066 A 23-05-1996 CA 2205066 A 23-05-1999 AU 4233796 A 06-06-1996 CA 2205066 A 23-05-1999 BP 0791238 A 27-08-1997 BP 0808456 A 26-01-1997 BP 0808456 A 26-01-1999 BP 0808456					
AU 4236996 A 6-6-1996 AU 4282896 A 6-6-6-1996 AU 4282896 A 6-6-6-1996 AU 4282996 A 6-6-6-1996 CA 2181189 A 23-65-1996 CA 2181189 A 23-65-1996 CA 2181189 A 23-65-1996 CA 2181190 A 23-65-1996 CA 2181189 A 23-62-1997 CA 24-62-1997 CA 24-62-1998 CA 24-62-1998 CA 24-62-1999					
AU 698213 B 29-10-1998 AU 4282896 A 66-66-1996 CA 2181189 A 23-65-1996 CA 2181189 A 23-65-1996 CA 2181189 A 23-65-1996 CA 1147391 A 26-62-1997 CN 1147391 A 26-62-1997 EP 0739240 A 30-10-1996 EP 0739240 A 30-10-1999 EP 0511407 T 18-11-1997 JP 9508498 T 22-09-1997 W0 9615269 A 23-05-1996 US 5928880 A 27-07-1999 US 5928880 A 27-07-1999 US 5632876 A 27-06-1997 US 5632876 A 27-06-1997 AU 706351 B 20-05-1999 AU 4152396 A 06-06-1996 AU 4233796 A 06-06-1996 CA 2284012 A 23-06-1998 CA 2284012 A 23-06-1998 EP 0791238 A 23-06-1997 EP 0808456 A 23-06-1997 EP 0808456 A 23-06-1997 EP 0808456 A 26-11-1997 US 5643738 A 26-01-1997 US 5643738 A 16-11-1997 US 5643738 A 16-11-1999 US 5755942 A 26-06-1996 US 5863788 A 26-01-1999			AU	704277 B	15-04-1999
AU 4282996 A 06-06-1996 CA 2181189 A 23-05-1996 CA 2181190 A 23-05-1996 CN 1157639 A 20-08-1997 CN 1163917 A 26-02-1997 CN 1163917 T 18-11-1997 CN 1163917 T 18-11-1997 CN 1163917 T 18-11-1997 CN 123-05-1996 CN 1951269 A 23-05-1996 CN 25063851 A 23-05-1996 CN 25063851 A 23-05-1996 CN 25063851 A 18-02-1997 AU 76551 B 20-06-1999 AU 4152396 A 20-06-1999 AU 4233796 A 06-06-1996 CA 2204912 A 23-05-1996 CA 2204912 A 23-05-1996 CA 2205066 A 23-05-1996 CA 2505060 A 23-05-1999 US 568388 A 14-01-1997 US 559838 A 11-01-1997 US 559838 A 11-01-1999 US 5683708 A 26-01-1999 US 5683708 A 26-0			UA	4236996 A	06-06-1996
AU 4282996 A 06-06-1996 CA 2181189 A 23-05-1996 CA 2181189 A 23-05-1996 CN 1157639 A 20-08-1997 CN 1143917 A 26-02-1997 CN 1143917 A 26-02-1997 CN 1143917 A 26-02-1997 CN 1143917 A 26-02-1997 CN 127-02-1997 CN 127-02-1997 CN 128-1997			AU	698213 B	29-10-1998
CA 2181189 A 23-05-1996 CA 2181190 A 23-05-1996 CN 1157639 A 20-08-1997 CN 1143917 A 26-02-1997 EP 0739240 A 30-10-1996 EP 0739243 A 30-10-1996 EP 0739243 A 30-10-1996 EP 0739243 A 30-10-1996 EP 0739243 A 20-08-1997 W0 9615269 A 23-05-1996 W0 9615269 A 23-05-1996 W0 9614934 A 23-05-1996 W0 9614934 A 23-05-1996 W0 9615270 A 23-05-1996 W1 961289 A 23-05-1996 CA 2204912 A 23-05-1999 AU 4233796 A 06-06-1996 CA 2204912 A 23-05-1999 CA 2204912 A 23-05-1996 EP 0791238 A 27-08-1997 EP 0808456 A 23-05-1996 EP 0791238 A 27-08-1997 EP 0808456 A 23-05-1996 US 5681484 A 28-10-1997 US 5681486 A 28-10-1997 US 5681486 A 28-10-1997 US 56843788 A 10-07-1997 US 5846396 A 8-10-1997 US 5846396 A 8-10-1997 US 5886396 A 8-12-1999 US 5885804 A 12-01-1999 US 5885804 A 12-01-1999 US 5885804 A 12-01-1999 US 5885804 A 12-01-1999 AU 709561 B 02-08-1999 AU 71664 B 06-12-099 AU 71664 B 06-12-			AU	4282896 A	06-06-1996
CA 2181190 A 23-05-1996 CN 1157639 A 20-08-1997 CN 1147917 A 26-02-1997 EP 0739240 A 30-10-1996 EP 0739240 A 30-10-1996 EP 0739423 A 30-10-1996 EP 0739423 A 30-10-1996 UP 9511407 T 18-11-1997 WO 9614569 A 23-05-1996 US 5928880 A 27-07-1999 US 5928880 A 27-07-1999 US 5632876 A 27-05-1997 US 5632876 A 27-05-1997 US 563351 A 18-02-1997 AU 705351 B 20-05-1998 AU 4182396 A 06-06-1996 AU 705659 B 27-06-1999 AU 4233796 A 06-06-1996 CA 2284912 A 23-05-1996 CA 2284912 A 23-05-1996 CA 2284912 A 23-05-1996 CA 2284912 A 23-05-1997 EP 0808456 A 26-01-1997 EP 0808456 A 26-01-1997 EP 0808456 A 26-01-1997 EP 0808456 A 26-01-1997 US 5643738 A 14-01-1997 US 5643738 A 14-01-1997 US 5643738 A 14-01-1997 US 5643738 A 16-11-1997 US 584596 A 28-01-1999 US 5755942 A 26-05-1996 US 5885968 A 26-01-1999 US 5885378 A 26-01-1999 US 5885398 A 26-01-1999					
CN 1157639 A 20-08-1997 CN 1143917 A 26-02-1997 EP 0739240 A 30-10-1996 EP 0739423 A 30-10-1996 EP 0739423 A 30-10-1996 EP 0739423 A 30-10-1996 EP 0739423 A 30-10-1996 UP 9511497 T 18-11-1997 JP 9509498 T 22-09-1997 W0 9615269 A 23-05-1996 W0 9614934 A 23-05-1996 W0 9614934 A 23-05-1996 US 562880 A 27-07-1999 US 563351 A 18-02-1997 AU 705351 B 20-05-1999 AU 4152396 A 06-06-1996 AU 705659 B 27-06-1999 AU 4233796 A 06-06-1996 CA 2204912 A 23-05-1996 CA 2204912 A 23-05-1996 EP 0791238 A 27-08-1997 JP 11500602 T 19-01-1999 W0 9615450 A 23-05-1996 US 5633788 A 10-01-1997 US 563184 A 28-10-1997 US 563188 A 14-01-1997 US 563188 A 14-01-1997 US 5634378 A 01-07-1997 US 5634378 A 01-07-1997 US 5634388 A 14-01-1997 US 5634388 A 14-01-1997 US 5634388 A 14-01-1997 US 5845396 A 26-01-1999 US 5853708 A 26-01-1999 US 27-07-07-07-07-07-07-07-07-07-07-07-07-07					
CN 1143917 A 26-02-1997 EP 0739240 A 30-10-1996 EP 0739423 A 30-10-1996 WO 961407 T 18-11-1997 WO 9615269 A 23-05-1996 US 562880 A 27-07-1999 US 562880 A 27-07-1999 US 562880 A 27-07-1999 US 5628876 A 27-05-1997 US 563351 A 18-02-1997 AU 705351 B 20-05-1999 AU 4152396 A 06-06-1996 AU 706699 B 27-06-1999 AU 4233796 A 06-06-1996 CA 2204912 A 23-06-1996 CA 2204912 A 23-06-1996 CA 2204912 A 23-06-1996 CA 2204912 A 23-06-1997 EP 0808456 A 26-11-1997 EP 0808456 A 26-11-1997 EP 0808456 A 26-11-1997 US 5643738 A 14-01-1997 US 5643738 A 14-01-1997 US 5643738 A 14-01-1997 US 5643738 A 14-01-1997 US 5846396 A 16-11-1999 US 5755942 A 26-06-1996 US 5863788 A 26-01-1999 US 5863788 A					
EP 0739240 A 30-10-1996 EP 0739423 A 30-10-1996 EP 0739423 A 30-10-1997 JP 9511497 T 18-11-1997 JP 9509498 T 22-09-1997 MO 9615269 A 23-05-1996 MO 9615269 A 23-05-1996 US 5928880 A 27-07-1999 US 563351 A 18-02-1997 US 563351 A 20-05-1999 AU 4152396 A 06-06-1996 CA 2204912 A 23-05-1996 CA 2204912 A 23-05-1996 EP 0791238 A 27-08-1997 EP 0808456 A 23-05-1996 EP 0791238 A 27-08-1997 US 563184 A 28-10-1997 US 563184 A 28-10-1997 US 563184 A 28-10-1997 US 563388 A 14-01-1997 US 563438 A 10-71-1997 US 563438 A 10-71-1997 US 563438 A 10-71-1997 US 563438 A 10-71-1997 US 5846396 A 28-10-1997 US 5846396 A 28-10-1997 US 5846396 A 28-10-1997 US 5846396 A 28-10-1997 US 5846396 A 28-10-1999 US 5858804 A 12-01-1999 US 5853708 A 16-11-1999 US 5858804 A 12-01-1999 US 5853708 A 26-01-1999 AU 709581 B 62-08-1999 AU 709581 B 62-08-1999 AU 709581 B 62-08-1999 AU 714664 B 66-1-2009 AU 713597 A 23-09-1998 CA 2223166 A 12-12-1996 CA 1193927 A 23-09-1998					
EP 0739423 A 30-10-1996 JP 95014407 T 18-11-1997 W0 9509498 T 22-09-1997 W0 9615269 A 23-05-1996 W0 9614934 A 23-05-1996 US 5928880 A 27-07-1999 W0 9615576 A 23-05-1996 US 5585069 A 17-12-1996 US 562876 A 27-05-1997 US 5632876 A 27-05-1997 US 563351 A 18-02-1997 AU 765351 B 20-05-1999 AU 4152396 A 06-06-1996 AU 765659 B 27-06-1999 AU 4233796 A 06-06-1996 CA 2204912 A 23-05-1996 CA 2204912 A 23-05-1996 EP 6791238 A 27-08-1997 EP 0808456 A 23-05-1996 EP 6791238 A 27-08-1997 EP 0808456 A 26-11-1997 US 5632788 A 06-07-1997 US 5643728 A 06-07-1997 US 5643728 A 06-07-1997 US 5643728 A 06-07-1997 US 5593838 A 14-07-1997 US 5845396 A 26-08-1998 US 5755942 A 26-08-1998 US 5755942 A 26-08-1998 US 5885708 A 26-01-1999 AU 4233796 A 26-08-1998 US 5885708 A 26-01-1999 US 58853708 A 26-01-1999					
JP 9514407 T 18-11-1997 JP 9509498 T 22-09-1997 WO 9615269 A 23-05-1996 WO 9615269 A 23-05-1996 US 5928880 A 27-07-1999 WO 9615576 A 23-05-1996 US 562876 A 27-07-1999 US 5603351 A 18-02-1997 AU 705351 B 20-05-1997 AU 705659 B 27-05-1997 AU 705659 B 27-05-1999 AU 415296 A 06-06-1996 CA 2204912 A 23-05-1996 CA 2204912 A 23-05-1996 CA 2204912 A 23-05-1996 EP 0791238 A 27-08-1997 BP 0808456 A 23-05-1996 US 563278 A 27-08-1997 US 5643738 A 01-07-1997 US 5846396 A 23-05-1996 US 5591494 A 28-10-1997 US 5643738 A 01-07-1997 US 5863708 A 14-01-1997 US 5863708 A 16-11-1999 US 5858804 A 12-01-1999 US 5858804 A 12-01-1999 US 5858804 A 12-01-1999 US 58583708 A 26-01-1999 US 5858804 A 12-01-1999 US 58583708 A 26-01-1999 US 5858804 A 12-01-1999 US 5858804 A 12-01-1999 US 5858804 A 12-01-1999 US 5858904 A 12-01-1999 US 58590708 A 24-12-1996 CA 2223166 A 12-12-1996 CN 1193927 A 23-09-1998					
JP 9509498 T 22-09-1997 W0 9615269 A 23-05-1996 US 592880 A 27-07-1999 W0 9614934 A 23-05-1996 US 592880 A 27-07-1999 W0 9615576 A 23-05-1996 US 5532876 A 27-05-1997 US 5632351 A 18-02-1997 AU 705351 B 20-05-1999 AU 4152396 A 06-06-1999 AU 4152396 A 06-06-1999 AU 4233796 A 06-06-1996 CA 2204912 A 23-06-1996 CA 2204912 A 23-06-1996 CA 2204912 A 23-06-1997 EP 0808456 A 26-19-1997 EP 0808456 A 26-11-1997 EP 0808456 A 26-11-1997 US 5643738 A 01-07-1997 US 5643738 A 01-07-1997 US 5643738 A 01-07-1997 US 5643738 A 01-07-1997 US 5846396 A 06-12-1998 US 5755942 A 26-08-1998 US 5755942 A 26-08-1998 US 588504 A 16-11-1999 US 588398 A 16-01-1999 US 588398 A 26-01-1999 US 583398 A 26-01-1999 US 583399 A 26-01-1999					
WO 9615269 A 23-05-1996 WO 9615276 A 23-05-1996 US 5928880 A 27-07-1999 WO 9615576 A 23-05-1996 US 55885069 A 17-12-1996 US 5632876 A 27-05-1997 US 5632876 A 27-05-1997 US 5632876 A 27-05-1997 US 5632351 A 18-02-1997 AU 70351 B 20-05-1999 AU 4152396 A 06-06-1996 AU 705659 B 27-05-1999 AU 4233796 A 06-06-1996 CA 2204912 A 23-05-1996 CA 2204912 A 23-05-1999 EP 0791238 A 27-08-1997 EP 0808456 A 23-05-1997 EP 0808456 A 26-11-1997 US 5643738 A 01-07-1997 US 5643738 A 01-07-1997 US 5643738 A 01-07-1997 US 5643738 A 01-07-1997 US 5846396 A 08-12-1998 US 5985119 A 16-11-1999 US 5868396 A 08-12-1998 US 5863708 A 26-01-1999 US 5863708 A 26-01-1999 US 58683708 A 26-01-1999 US 28683708 A 26-01-1					
W0 9614934 A 23-05-1996 US 592880 A 27-07-1999 W0 9615576 A 23-05-1996 US 552876 A 27-05-1997 US 5632876 A 27-05-1997 US 5632876 A 68-06-1998 AU 705351 B 20-05-1999 AU 4152396 A 06-06-1999 AU 4152396 A 06-06-1999 AU 4233796 A 06-06-1999 CA 2204912 A 23-06-1996 CA 2204912 A 23-06-1996 CA 2204912 A 23-06-1996 CP 6791238 A 27-08-1997 EP 6898456 A 26-11-1997 EP 0898456 A 26-11-1997 EP 0898456 A 26-11-1997 US 5631484 A 28-10-1997 US 5631484 A 28-10-1997 US 5634738 A 01-07-1997 US 5846396 A 16-11-1997 US 5846396 A 16-11-1999 US 5755942 A 26-08-1998 US 5755942 A 26-08-1998 US 5853788 A 26-08-1998 US 5863788 A 26-08-1998 US 5863788 A 26-08-1998 US 5863788 A 26-08-1999 US 2663798 A 26-08-1998					
US 5928880 A 27-07-1999 WO 9615576 A 23-05-1996 US 5585069 A 17-12-1996 US 5632876 A 27-05-1997 US 5632876 A 27-05-1997 AU 76531 A 28-05-1999 AU 4152396 A 06-06-1996 AU 755659 B 27-05-1999 AU 4233796 A 06-06-1996 CA 2264912 A 23-05-1996 CA 2264912 A 23-05-1996 EP 6791238 A 27-08-1997 EP 6808456 A 23-05-1996 US 5661484 A 28-10-1997 US 5643738 A 01-07-1997 US 5643738 A 01-07-1997 US 5846396 A 08-10-1997 US 5846396 A 08-10-1997 US 5864396 A 08-10-1997 US 5864396 A 08-10-1997 US 5864396 A 08-10-1997 US 5864396 A 08-10-1999 US 5755942 A 26-06-1998 US 58653708 A 14-01-1999 US 58653708 A 26-01-1999 AU 709581 B 02-09-1999 AU 709581 B 02-09-1996 AU 714664 B 06-01-2009 AU 714564 B 06-01-2009 AU 4233996 A 24-12-1996 CA 2223106 A 12-12-1996 CA 2223106 A 12-12-1996 CA 2223106 A 12-12-1996 CA 1193927 A 23-09-1999					
W0 9615576 A 23-05-1996 US 5585069 A 17-12-1996 US 562876 A 27-05-1997 US 563351 A 18-02-1997 AU 765351 B 20-05-1999 AU 765351 B 20-05-1999 AU 76559 B 27-05-1999 AU 76569 B 27-05-1999 AU 76569 B 27-05-1999 AU 76569 B 27-05-1999 AU 4233796 A 06-06-1996 CA 226912 A 23-05-1996 CA 226916 A 23-05-1996 EP 6791238 A 27-08-1997 EP 6898456 A 26-11-1997 EP 6898456 A 26-11-1997 EP 6898456 A 26-11-1997 US 5631484 A 28-10-1997 US 563378 A 01-07-1997 US 5836396 A 16-01-1998 US 575542 A 26-05-1998 US 575542 A 26-05-1998 US 585378 B 26-01-1999 AU 799561 B 02-05-1999 AU 799561 B 02-05-1999 AU 799561 B 02-05-1999 AU 4233996 A 24-12-1996 CA 2223166 A 12-12-1996 CA					
US 5632876 A 27-05-1997 US 5693351 A 18-02-1997 AU 76351 B 20-05-1999 AU 4152396 A 66-66-1996 AU 765659 B 27-05-1999 AU 4233796 A 66-66-1996 CA 2284912 A 23-05-1996 CA 2284912 A 23-05-1996 EP 6791238 A 27-08-1997 EP 6898456 A 26-11-1997 EP 6898456 A 26-11-1997 EP 11500602 T 19-01-1999 HO 5615450 A 23-05-1996 US 5631484 A 28-10-1997 US 563738 A 01-07-1997 US 5533838 A 14-01-1997 US 5846396 A 08-12-1998 US 5755942 A 16-11-1997 US 5853788 A 26-08-1998 US 5853788 A 26-08-1998 US 5853788 A 26-08-1998 US 5853788 A 26-08-1999 US 5853798 A 26-08-1999 US 5853798 A 26-08-1999 US 5853798 A 26-08-1999 AU 4233996 A 26-12-1999 AU 4233996 A 24-12-1996 CA 2223166 A 12-12-1996 CA 2223166 A 12-12-1996 CA 2223166 A 12-12-1996 CA 1193927 A 23-09-1998	UO 0615576				17.10.1006
US 5603351 A 18-02-1997 AU 765351 B 20-05-1999 AU 4182396 A 06-06-1996 AU 4182396 A 06-06-1996 AU 4233796 A 06-06-1996 CA 2204912 A 23-05-1996 CA 2204912 A 23-05-1996 CP 6791238 A 27-08-1997 EP 6808456 A 23-11-1997 EP 6808456 A 26-11-1997 JP 11500602 T 19-01-1999 WO 9615450 A 23-05-1996 US 56643738 A 01-07-1997 US 5633738 A 01-07-1997 US 5846396 A 08-12-1999 US 5985119 A 16-11-1999 US 5985119 A 16-11-1999 US 5985189 A 16-11-1999 US 585388 A 14-01-1999 US 5858680 A 26-01-1999 US 5858380 A 26-01-1999 US 5858380 A 26-01-1999 US 5858390 A 26-01-1999 AU 423396 A 24-12-1996 AU 714664 B 06-01-2009 AU 423399 A 12-12-1996 CA 2223105 A 12-12-1996 CN 1193927 A 23-09-1999	MO 30122/0 W	23-05-1996			
AU 765351 B 20-05-1999 AU 4152396 A 66-66-1996 AU 765659 B 27-05-1999 AU 4233796 A 66-66-1996 CA 2264912 A 23-05-1996 CA 2264912 A 23-05-1996 CA 2264912 A 23-05-1996 EP 6791238 A 27-08-1997 EP 6898456 A 26-11-1997 JP 11500602 T 19-01-1999 HO 9615450 A 23-05-1996 US 5631484 A 28-10-1997 US 563738 A 01-07-1997 US 5523838 A 14-01-1997 US 5846396 A 26-12-1998 US 5755942 A 26-05-1998 US 5755942 A 16-11-1999 US 5863708 A 26-01-1999 US 5833708 A 26-01-1999 US 5833708 A 26-01-1999 US 5833708 A 26-01-1999 US 5833708 A 26-01-1999 US 263399 A 26-01-1999 AU 4233996 A 26-01-1999 AU 4233996 A 24-12-1996 CA 2223166 A 24-12-1996 CA 2223166 A 12-12-1996 CA 1223109 A 12-12-1996 CA 1223106 A 12-12-1996 CA 1193927 A 23-09-1998					
AU 4152396 A 06-06-1996 AU 756569 B 27-05-1999 AU 4233796 A 06-06-1996 CA 2284912 A 23-05-1996 CA 2284912 A 23-05-1996 CA 2285066 A 23-05-1996 CA 2285066 A 23-05-1997 CP 0808456 A 25-08-1997 CP 0808456 A 25-08-1997 CP 0808456 A 26-11-1997 CP 0808456 A 23-08-1997 CP 0808456 A 23-08-1998 CP 0808456 A 23-08-1999 CP 0808456 A 23-08-1999 CP 0808456 A 23-08-1999 CP 0808456 A 23-08-1999 CP 0808456 A 23-08-1996 AU 4233596 A 24-12-1996 CP 0808456 A 23-08-1999 CP 0808456 A 23-08-1999 CP 0808456 A 23-08-1999 CP 0808456 A 23-08-1999 CP 0808456 A 23-08-1996 A 23-08-1996 CP 0808456 A 23-08-1996 A 23-08-19					
AU 705659 B 27-05-1999 AU 4233796 A 06-06-1996 CA 2204912 A 23-05-1996 CA 2204912 A 23-05-1996 EP 6791238 A 27-08-1997 EP 0808456 A 26-11-1997 JP 11500602 T 19-01-1999 W0 9615450 A 28-05-1996 US 5631484 A 28-10-1997 US 553238 A 14-01-1997 US 5592318 A 14-01-1997 US 5592318 A 14-01-1997 US 5925119 A 16-11-1999 US 5735942 A 26-05-1998 US 5853708 A 26-01-1999 US 5735942 A 12-01-1999 US 5833708 A 26-01-1999 US 5833708 A 26-01-1999 AU 709561 B 02-09-1996 AU 4233596 A 24-12-1996 CA 2223166 A 12-12-1996 CA 2223166 A 12-12-1996 CA 2223166 A 12-12-1996 CA 1193927 A 23-09-1998					
AU 4233796 A 06-06-1996 CA 2296912 A 23-05-1996 CA 2296966 A 23-05-1996 EP 6791238 A 27-08-1997 EP 0808456 A 26-11-1997 JP 11500602 T 19-01-1999 M0 9615450 A 23-05-1996 US 56643738 A 01-07-1997 US 5643738 A 01-07-1997 US 5846396 A 08-12-1997 US 5846396 A 08-12-1999 US 5985119 A 16-11-1999 US 5985109 A 16-11-1999 US 5853708 A 26-01-1999 US 5853708 A 26-01-1999 US 5853708 A 26-01-1999 AU 799581 B 02-09-1999 AU 799581 B 02-09-1999 AU 799581 B 02-09-1999 AU 739581 B 02-09-1999					
CA 2294912 A 23-06-1996 CA 2295066 A 23-06-1996 EP 6791238 A 27-08-1997 EP 0808456 A 26-11-1997 JP 11500602 T 19-01-1999 W0 9615450 A 28-06-1996 US 5631484 A 28-10-1997 US 5633738 A 01-07-1997 US 5533838 A 14-01-1997 US 553838 A 14-01-1997 US 593819 A 16-11-1999 US 593838 A 14-01-1997 US 5836708 A 26-08-1998 US 593518 A 16-11-1999 US 5835708 A 26-08-1998 US 5835708 A 26-08-1999 AU 799561 B 02-09-1999 AU 799561 B 02-09-1999 AU 4233696 A 24-12-1996 CA 2223166 A 24-12-1996 CA 2223166 A 12-12-1996 CN 1193927 A 23-09-1998					
EP 0791238 A 27-08-1997 EP 0808456 A 26-11-1997 JP 11500602 T 19-01-1999 WO 9615450 A 23-05-1996 US 5681484 A 28-10-1997 US 5683738 A 01-07-1997 US 5593838 A 14-01-1997 US 5846396 A 08-12-1998 US 5985119 A 16-11-1999 US 5755942 A 26-05-1998 US 5853708 A 26-01-1999 US 5858604 A 12-01-1999 US 5853708 A 26-01-1999 AU 799561 B 02-09-1999 AU 4233496 A 24-12-1996 AU 714664 B 06-01-2000 AU 423596 A 24-12-1996 CA 2223166 A 12-12-1996 CA 2223166 A 12-12-1996 CN 1193927 A 23-09-1998					
EP 0808456 A 26-11-1997 JP 11500602 T 19-01-1999 MO 9615450 A 23-05-1996 US 5681484 A 28-10-1997 US 5643738 A 01-07-1997 US 5593838 A 14-01-1997 US 5846396 A 08-12-1998 US 5985119 A 16-11-1999 US 5785942 A 26-05-1998 US 5863708 A 26-01-1999 US 5856304 A 12-01-1999 AU 799541 B 02-09-1999 AU 799540 A 24-12-1996 AU 714664 B 06-01-2000 AU 423396 A 24-12-1996 CA 2223106 A 12-12-1996 CA 2223106 A 12-12-1996 CN 1193927 A 23-09-1999			CA	2205066 A	23-05-1996
JP 11500602 T 19-01-1099 WO 9615450 A 23-65-1996 US 5681484 A 28-10-1997 US 56814878 A 01-07-1997 US 5593838 A 14-01-1997 US 5846396 A 08-12-1998 US 5985119 A 16-11-1999 US 5755942 A 26-05-1998 US 585708 A 26-01-1999 US 5858084 A 12-01-1999 US 5858084 A 12-01-1999 AU 799561 B 02-09-1999 AU 423496 A 24-12-1996 AU 423596 A 24-12-1996 CA 2223069 A 12-12-1996 CA 2223069 A 12-12-1996 CN 1193927 A 23-09-1998					27-08-1997
NO			EP	0808456 A	26-11-1997
US 5681484 A 28-10-1997 US 5643738 A 01-07-1997 US 5593838 A 14-01-1997 US 5846396 A 08-12-1998 US 5985119 A 16-11-1999 US 5755942 A 26-06-1998 US 5853708 A 26-01-1999 US 585804 A 12-01-1999 US 5858084 A 12-01-1999 AU 709581 B 02-09-1999 AU 4233496 A 24-12-1996 AU 4233596 A 24-12-1996 CA 2223099 A 12-12-1996 CA 2223166 A 12-12-1996 CN 1193927 A 23-09-1998			JP		
US 5643738 A 01-07-1997 US 5593838 A 14-01-1997 US 5846396 A 08-12-1998 US 5985119 A 16-11-1999 US 5755942 A 26-05-1998 US 5858304 A 12-01-1999 US 5858804 A 12-01-1999 AU 799581 B 02-09-1999 AU 4233496 A 24-12-1996 AU 714664 B 06-01-2000 AU 714664 B 06-01-2000 AU 4233596 A 24-12-1996 CA 2223099 A 12-12-1996 CA 2223165 A 12-12-1996 CN 1193927 A 23-09-1998					
US 559838 A 14-01-1997 US 5846396 A 08-12-1998 US 5985119 A 16-11-1999 US 5755942 A 26-06-1998 US 5858708 A 26-01-1999 US 5858804 A 12-01-1999 AU 709581 B 62-09-1999 AU 709581 B 62-09-1999 AU 4233496 A 24-12-1996 AU 4233596 A 24-12-1996 CA 2223099 A 12-12-1996 CA 2223166 A 12-12-1996 CN 1193927 A 23-09-1998					
US 5846396 A 08-12-1998 US 5985119 A 16-11-1999 US 5755942 A 26-05-1998 US 585804 A 12-01-1999 US 585804 A 12-01-1999 AU 799581 B 02-09-1999 AU 4233496 A 24-12-1996 AU 714664 B 06-01-2000 AU 4233596 A 24-12-1996 CA 2223099 A 12-12-1996 CA 2223165 A 12-12-1996 CN 1193927 A 23-09-1998					
US 5985119 A 16-11-1999 US 5755942 A 26-66-1998 US 58563708 A 26-61-1999 US 5858808 A 26-61-1999 AU 709581 B 02-69-1999 AU 709581 B 02-69-1999 AU 4233496 A 24-12-1996 AU 714664 B 06-61-2000 AU 4233596 A 24-12-1996 CA 2223099 A 12-12-1996 CA 2223165 A 12-12-1996 CN 1193927 A 23-09-1998					
US 5755942 A 26-06-1998 US 5863708 A 26-01-1999 US 5888804 A 12-01-1999 AU 799581 B 02-09-1999 AU 4233496 A 24-12-1996 AU 714664 B 06-01-2000 AU 4233696 A 24-12-1996 CA 2223099 A 12-12-1996 CA 2223165 A 12-12-1996 CN 1193927 A 23-09-1998					
US 5863708 A 26-01-1999 US 585808 A 12-01-1999 AU 799501 B 02-09-1999 AU 4233496 A 24-12-1996 AU 714664 B 06-01-2000 AU 4233596 A 24-12-1996 CA 2223099 A 12-12-1996 CA 2223165 A 12-12-1996 CN 1193927 A 23-09-1998					
US 5858804 A 12-01-1999 AU 709581 B 02-09-1999 AU 4233496 A 24-12-1996 AU 423396 A 24-12-1996 AU 4233596 A 24-12-1996 CA 2223099 A 12-12-1996 CA 2223166 A 12-12-1996 CN 1193927 A 23-09-1998					
AU 799581 B 02-09-1999 AU 4233496 A 24-12-1996 AU 714664 B 06-01-2000 AU 4233596 A 24-12-1996 CA 2223099 A 12-12-1996 CA 2223165 A 12-12-1996 CN 1193927 A 23-09-1998					
AU 423496 A 24-12-1996 AU 714664 B 06-01-2000 AU 4233596 A 24-12-1996 CA 2223099 A 12-12-1996 CA 2223166 A 12-12-1996 CN 1193927 A 23-09-1998					
AU 714664 B 06-01-2000 AU 4233596 A 24-12-1996 CA 2223099 A 12-12-1996 CA 2223165 A 12-12-1996 CN 1193927 A 23-09-1998					
AU 4233596 A 24-12-1996 CA 2223099 A 12-12-1996 CA 2223166 A 12-12-1996 CN 1193927 A 23-09-1998					
CA 2223099 A 12-12-1996 CA 2223166 A 12-12-1996 CN 1193927 A 23-09-1998					
CA 2223166 A 12-12-1996 CN 1193927 A 23-09-1998					
CN 1193927 A 23-09-1998					
EP 0883442 A 16-12-1998					
			ŧΡ	0883442 A	10-15-1989

Information on patent family members

Intern. sal Application No PCT/GB 00/01257

Patent document cited in search repo	rt	Publication date	F	atent family member(s)	Publication date
WO 9615576	A	*	EP JP WO WO US US AU US WO US	0869850 A 11506183 T 11506412 T 9639252 A 9639260 A 5842106 A 5858193 A 6590096 A 6120665 A 5980704 A	14-10-1998 02-06-1999 08-06-1999 12-12-1996 12-12-1996 24-11-1998 12-01-1999 09-01-1997 19-09-2000 27-12-1996 09-11-1999
US 5304487	A	19-04-1994	ATT	155711 T 167816 T 1 167816 T 1 140825 T 1 14	15-08-1997 15-07-1998 15-07-1998 15-08-1996 15-08-1999 08-05-1997 29-11-1993 24-07-1997 29-11-1993 22-11-1993 29-11-1993 11-11-1995 11-07-1995

in	formation on patent family mer	nbers		3 00/01257
Patent document cited in search report	Publication date	Pa	itent family nember(s)	Publication date
US 5304487 A		WO . WO WO	9322421 A 9322055 A 9322058 A	11-11-199 11-11-199 11-11-199
		WU	9322058 A	11-11-199

Form PCT/ISA/210 (patent terrify annex) (July 1992)